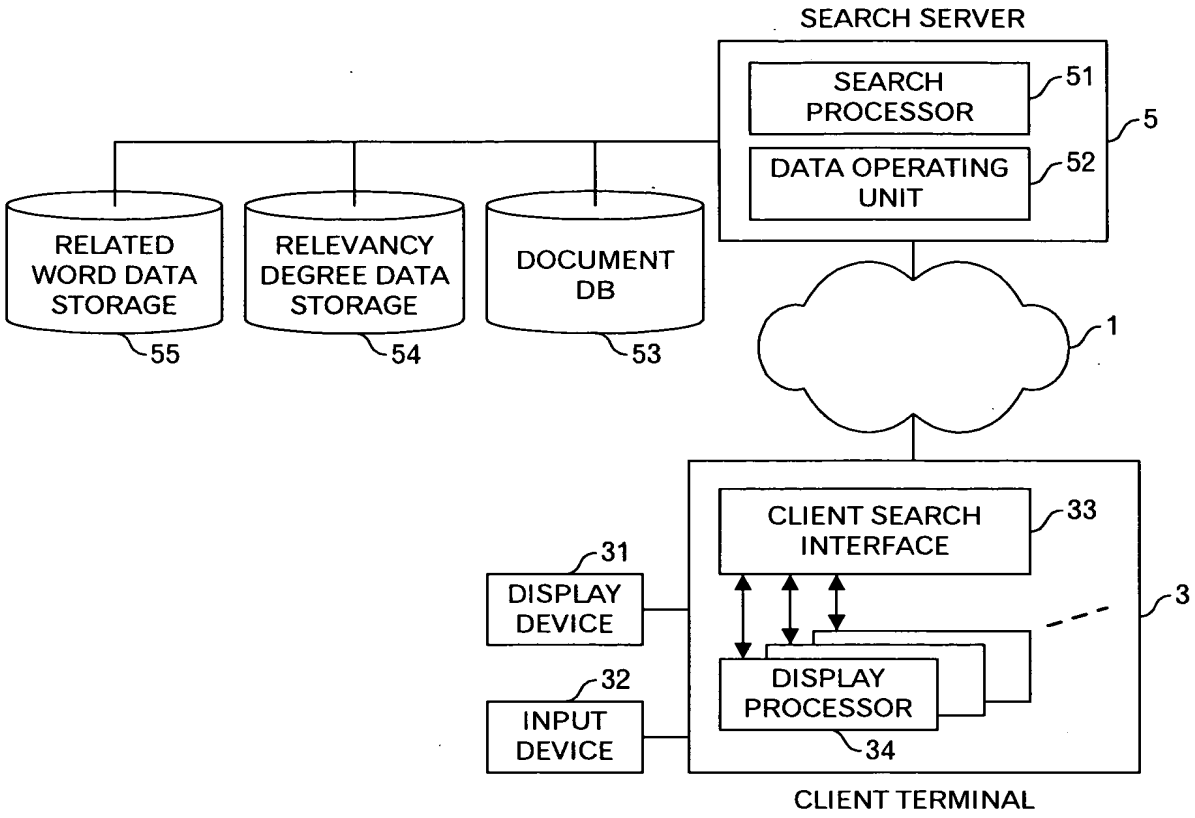
SEARCH SERVER
SEARCH PROCESSOR
51
DATA OPERATING UNIT
52
5
RELATED WORD DATA STORAGE
55
RELEVANCY DEGREE DATA STORAGE
54
DOCUMENT DB
53
1
CLIENT SEARCH INTERFACE
33
31
DISPLAY DEVICE
3
32
INPUT DEVICE
DISPLAY PROCESSOR
34
CLIENT TERMINAL

FIG.1

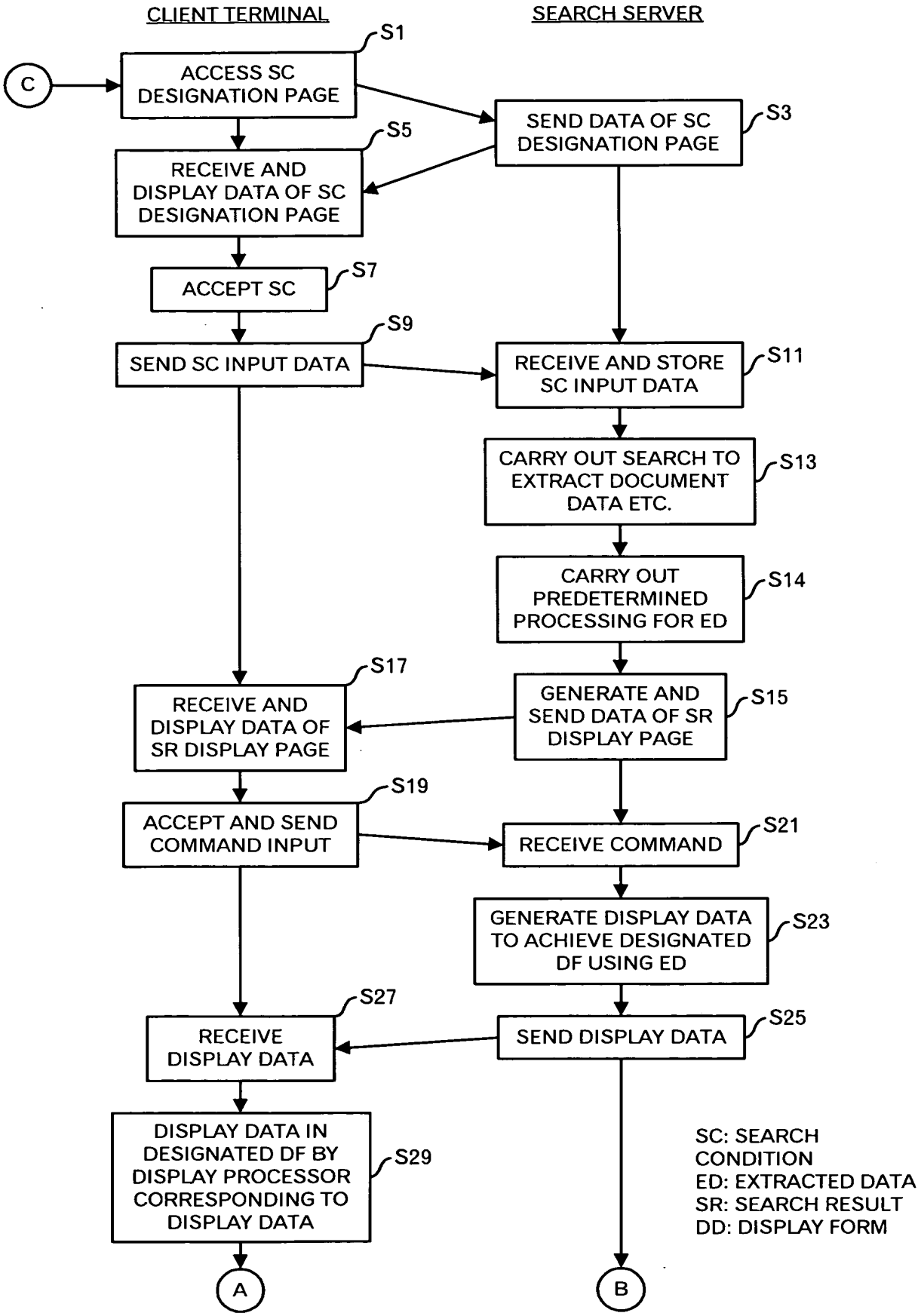
CLIENT TERMINAL
SEARCH SERVER
C
S1
ACCESS SC DESIGNATION PAGE
S3
SEND DATA OF SC DESIGNATION PAGE
S5
RECEIVE AND DISPLAY DATA OF SC DESIGNATION PAGE
S7
ACCEPT SC
S9
SEND SC INPUT DATA
S11
RECEIVE AND STORE SC INPUT DATA
S13
CARRY OUT SEARCH TO EXTRACT DOCUMENT DATA ETC.
S14
CARRY OUT PREDETERMINED PROCESSING FOR ED
S15
GENERATE AND SEND DATA OF SR DISPLAY PAGE
S17
RECEIVE AND DISPLAY DATA OF SR DISPLAY PAGE
S19
ACCEPT AND SEND COMMAND INPUT
S21
RECEIVE COMMAND
S23
GENERATE DISPLAY DATA TO ACHIEVE DESIGNATED DF USING ED
S25
SEND DISPLAY DATA
S27
RECEIVE DISPLAY DATA
S29
DISPLAY DATA IN DESIGNATED DF BY DISPLAY PROCESSOR CORRESPONDING TO DISPLAY DATA
A
B
SC: SEARCH CONDITION
ED: EXTRACTED DATA
SR: SEARCH RESULT
DD: DISPLAY FORM

FIG.2

201	202 APPLICATION NO.	203 FILING DATE	204 PUBLICATION NO.	205 PUBLICATION DATE	206 REGISTRATION. NO
1	PH10-151930	19980518	PH11-327888	19991130	-
2	PH10-247855	19980818	P2000-066927	20000303	-
3	PS56-094824	19810619	PS57-209551	19821222	-
4	P2001-299101	20010928	P2002-202945	20020719	-
5	P2001-089532	20010327	P2002-288416	20021004	-
6	PH02-285102	19901023	PH04-160448	19920603	-
7	PH10-248603	19980927	P2000-088927	20000409	-
8	PH09-198283	19970724	PH10-097431	19980414	-
9	PH11-210078	19990726	P2001-034458	20010209	-
10	PH11-137098	19990518	P2000-330920	20001130	-
⋮	⋮	⋮	⋮	⋮	⋮

...

207 APPLICANT	208 TITLE	209 ABSTRACT	...
COMPANY A	SEMICONDUCTOR...	【PROBLEM】TO EVADE U...	
COMPANY B	INFORMATION PR...	【PROBLEM】TO ALLOW A...	
COMPANY C	CAREER MANAGIN...	TO AUTOMATICALLY GLA...	
COMPANY A	PERIPHERAL LOA...	【PROBLEM】TO PROVIDE...	
COMPANY B	ASSETS MANAGE...	【PROBLEM】TO MANAGE...	
COMPANY C	ADDRESS CONVE...	TO IMPROVE THE HIT RA...	
COMPANY C	ELECTRONIC EQU...	【PURPOSE】TO PROVIDE...	
COMPANY C	DEVICE AND MET...	【PROBLEM】TO GREATLY...	
COMPANY C	REMOTE LOADIN...	【PROBLEM】TO PROVIDE...	
COMPANY A	METHOD AND SY...	【PROBLEM】TO SMOOTH...	
⋮	⋮	⋮	

FIG.3

PUBLICATION NO.	RELATED WORDS
PH11-327888	EXPOSURE, FUNCTION ADDITION, SEMICONDUCTOR, RESTORATION, FAILURE IN CHANGE, ADDITION, EXTERNAL STORAGE MEDIA, PROGRAM MANAGEMENT, REINSTALLING MISTAKE, CONTENT OF CHANGE, EXTERNAL STORAGE, EVASION, PASSING UNNECESSARY, DELETION, INDIVIDUAL, CHANGE, MEDIA, SOFTWARE, HISTORY, PROGRAM, IMPROVEMENT, EXTERNAL, EFFICIENCY, AUTOMATIC, INSTALLATION, CONTENT, RECORD, NECESSITY, AUTOMATIC OPERATION, FILE, MEMORY, CONTROL
P2000-066927	PERFORMANCE, PERFORMANCE DATA ACQUISITION, HYPERVISOR, PERFORMANCE MEASUREMENT PROGRAM, MAIN STORAGE, EXTERNAL INFORMATION, SYSTEM PROGRAM, INTERVENTION, MAIN, TRACKING, STORAGE, MEMORY, SCHEDULED CONTROL, REAL PERFORMANCE VALUE, PERFORMANCE CHANGE, TARGET PERFORMANCE VALUE, PROGRAM, ADDRESS, MEASUREMENT, EXTERNAL, TABLE, TOLERANCE, SERVICE PROCESSOR, AREA, READ, ALL, DATA AREA, DUPLICATE, SAVE AREA, ALLOWANCE, SCHEDULE, TARGET, STOP, NONE, PROCESSING, RANGE, INTERFACE, CHANGE, SPECIFICATION, PROCESSOR, SERVICE, DISPLAY, CHANGE, CONTROL, SOFTWARE
PS57-209551	A/B, HISTORICAL INFORMATION, HISTORY, COMPARISON, HARDWARE CODE, FINAL HISTORICAL INFORMATION, FIRMWARE, CODE, RESPECTIVELY, OS, FINALITY, HARDWARE, CONTENT, FIRMWARE CODE, EXTRACTED INITIAL SET, UNIQUENESS, CONTENT OS CODE, EACH PRESCRIBED AREA, HISTORY MANAGEMENT SCHEME, OPERATION PREPARATION, ASPECT, AT FIRST, MAINTENANCE, DISPLAY, THIS TIME, PECULIARITY, ACCOMMODATION, ACCOMPANYING, FORWARDING, MAINTENANCE MEANS, CORRECTION INFORMATION, WRITING, RAM, EXTERNAL STORAGE, MANAGEMENT SCHEME, PREPARATION, PROGRAM, RESULT, COMPARISON CIRCUIT, OPERATION, COMPARISON RESULT, INDEPENDENCE, CHANNEL, A, B, MEMORY, MOTOR, SIMULTANEOUS, INTERRUPT, RECOGNITION, LEVEL, SET, EXTRACTION, EXTERNAL, AREA, CORRECTION, CORRESPONDENCE, USE, ADDRESS, ACCESS, EXECUTION, SOFTWARE
P2002-202945	JOB, ACCESS TICKET, JOB MANAGEMENT, TICKET, JOB MANAGEMENT COMMAND, PERIPHERMENT, DECIPHERMENT, ACCESS, COMMAND, CONSOLE, NETWORK, IN NETWORK ENVIRONMENT, NETWORK ENVIRONMENT, DIRECTORY SERVER, ACCESS CONTROL, MANAGEMENT SOFTWARE, INVESTING, UNION, DUPLICATE, DIRECTORY, MANAGEMENT METHOD, ENVIRONMENT, CONTENT, CONTROL, CONNECTION, INPUT, SERVER SOFTWARE
P2002-288416	EQUIPMENT, NETWORK ADDRESS, SPECIFICATION, BUSY, USE REQUEST, STORAGE PART, STATE, ASSET MANAGEMENT, REFERENCE, ASSET, SOFTWARE USE REQUEST, EQUIPMENT INFORMATION STORAGE, ADDRESS, SERVER, ASSET MANAGEMENT METHOD, USE, USER, INFORMATION PROCESSING EQUIPMENT, INFORMATION STORAGE, MEMORY, USE PERMISSION, NETWORK, SOFTWARE INFORMATION, EQUIPMENT INFORMATION, SOFTWARE, REQUEST, USE, ISSUE, EACH OTHER, CHANGE, PERMISSION, TERMINAL, RESPONSE, RELATION, SPECIFIC
PH04-160448	ADDRESS, PAGE SIZE, PAGE, ADDRESS CONVERSION, SIZE, VIRTUAL ADDRESS, CONVERSION, BIT, ADDRESS CONVERSION METHOD, VIRTUAL ADDRESS SPACE, CONVERSION MEMORY, SPACE, REAL ADDRESS, VIRTUAL, ADDRESS PAIR, AT THE ADDRESS TRANSLATION, THE MOST SMALL UNIT, REAL ADDRESS SPACE, REAL PAGE, REAL MEMORY, IN INFORMATION PROCESSOR, DYNAMIC ADDRESS TRANSLATION METHOD, MEMORY, OBJECT OF COMPARISON, BIT NUMBER, CORRESPONDENCE, PAIR, ADJUSTMENT, THE MOST SMALL, EXPAND, CONTROL, PART, USE, DYNAMIC, EFFECTIVE, UNIT, CHANGE, OBJECT, HARDWARE, CORRESPONDENCE, ACCESS, STORAGE, SETTING, COMPARISON, SOFTWARE
P2000-088927	ASYNCHRONOUS PROCESS, ASYNCHRONOUS SYSTEM, INTERRUPT CONTROL, INTERRUPT, ASYNCHRONOUS PROCESS MECHANISM, STANDBY, HOT, CONTROL, START INSTRUCTION, STANDARD SYSTEM, USELESSNESS, FAILURE OCCURRENCE, STANDARD, REPORT, LOAD, END, RECOGNITION, START, TROUBLE, INSTRUCTION, OCCURRENCE, PLURAL, CONNECTION, PROCESSING, SOFTWARE

FIG.4

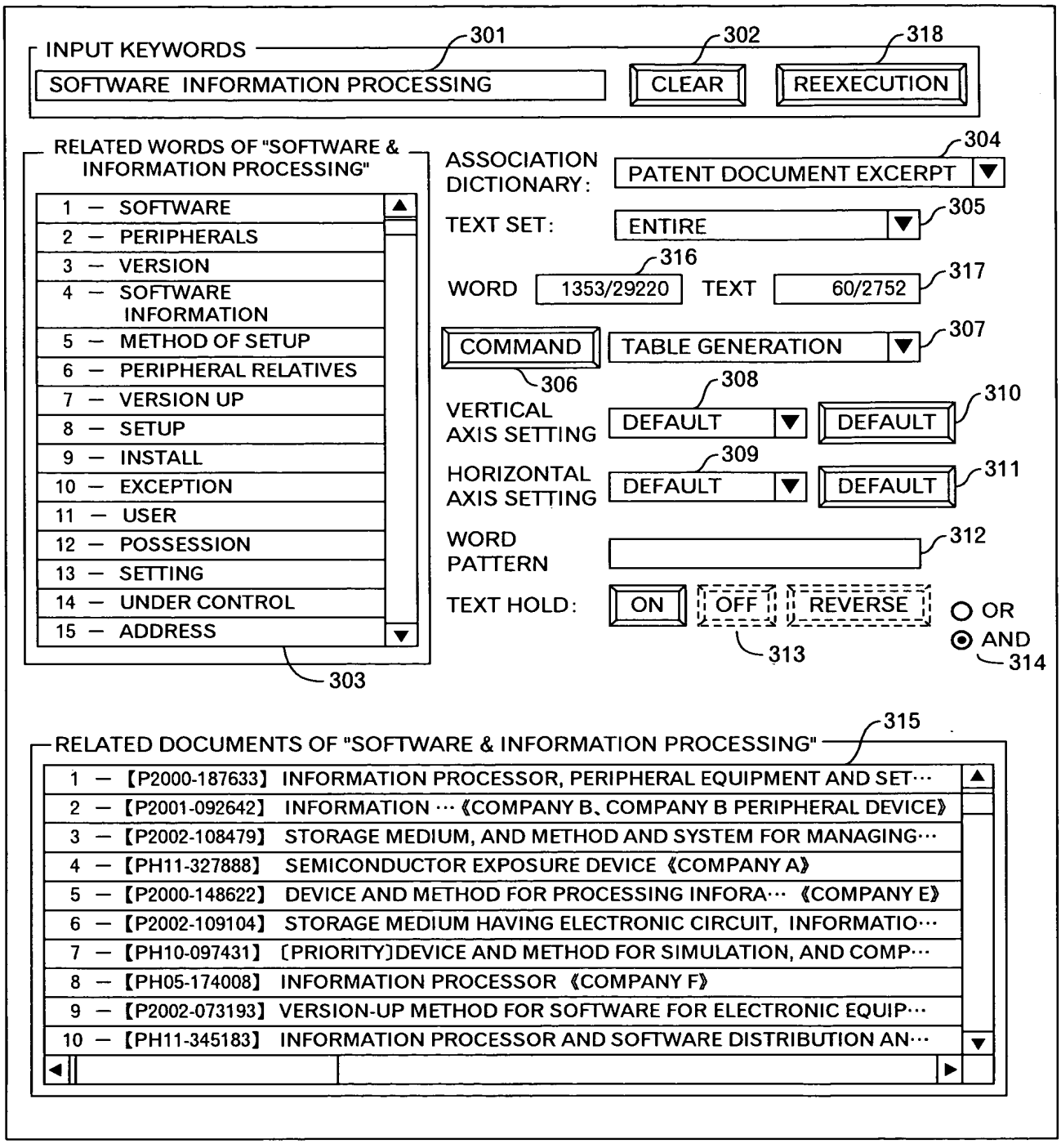
INPUT KEYWORDS
301
302
318
SOFTWARE INFORMATION PROCESSING
CLEAR
REEXECUTION
RELATED WORDS OF "SOFTWARE & INFORMATION PROCESSING"
1 — SOFTWARE
2 — PERIPHERALS
3 — VERSION
4 — SOFTWARE INFORMATION
5 — METHOD OF SETUP
6 — PERIPHERAL RELATIVES
7 — VERSION UP
8 — SETUP
9 — INSTALL
10 — EXCEPTION
11 — USER
12 — POSSESSION
13 — SETTING
14 — UNDER CONTROL
15 — ADDRESS
303
ASSOCIATION DICTIONARY:
304
PATENT DOCUMENT EXCERPT
TEXT SET:
305
ENTIRE
316
WORD
1353/29220
TEXT
60/2752
317
COMMAND
306
TABLE GENERATION
307
VERTICAL AXIS SETTING
308
DEFAULT
DEFAULT
310
HORIZONTAL AXIS SETTING
309
DEFAULT
DEFAULT
311
WORD PATTERN
312
TEXT HOLD:
ON
OFF
REVERSE
313
OR
AND
314
RELATED DOCUMENTS OF "SOFTWARE & INFORMATION PROCESSING"
315
1 — 【P2000-187633】 INFORMATION PROCESSOR, PERIPHERAL EQUIPMENT AND SET…
2 — 【P2001-092642】 INFORMATION …《COMPANY B、COMPANY B PERIPHERAL DEVICE》
3 — 【P2002-108479】 STORAGE MEDIUM, AND METHOD AND SYSTEM FOR MANAGING…
4 — 【PH11-327888】 SEMICONDUCTOR EXPOSURE DEVICE《COMPANY A》
5 — 【P2000-148622】 DEVICE AND METHOD FOR PROCESSING INFORA… 《COMPANY E》
6 — 【P2002-109104】 STORAGE MEDIUM HAVING ELECTRONIC CIRCUIT, INFORMATIO…
7 — 【PH10-097431】 〔PRIORITY〕DEVICE AND METHOD FOR SIMULATION, AND COMP…
8 — 【PH05-174008】 INFORMATION PROCESSOR《COMPANY F》
9 — 【P2002-073193】 VERSION-UP METHOD FOR SOFTWARE FOR ELECTRONIC EQUIP…
10 — 【PH11-345183】 INFORMATION PROCESSOR AND SOFTWARE DISTRIBUTION AN…

FIG.5

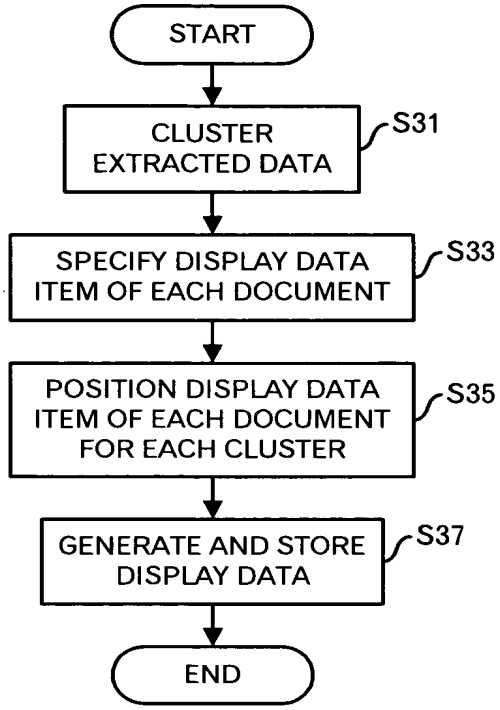
START
CLUSTER EXTRACTED DATA
S31
SPECIFY DISPLAY DATA ITEM OF EACH DOCUMENT
S33
POSITION DISPLAY DATA ITEM OF EACH DOCUMENT FOR EACH CLUSTER
S35
GENERATE AND STORE DISPLAY DATA
S37
END

FIG.6

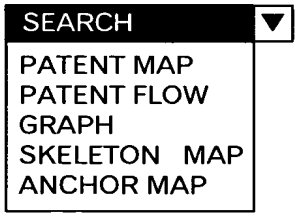
SEARCH
PATENT MAP
PATENT FLOW
GRAPH
SKELETON MAP
ANCHOR MAP

FIG.8

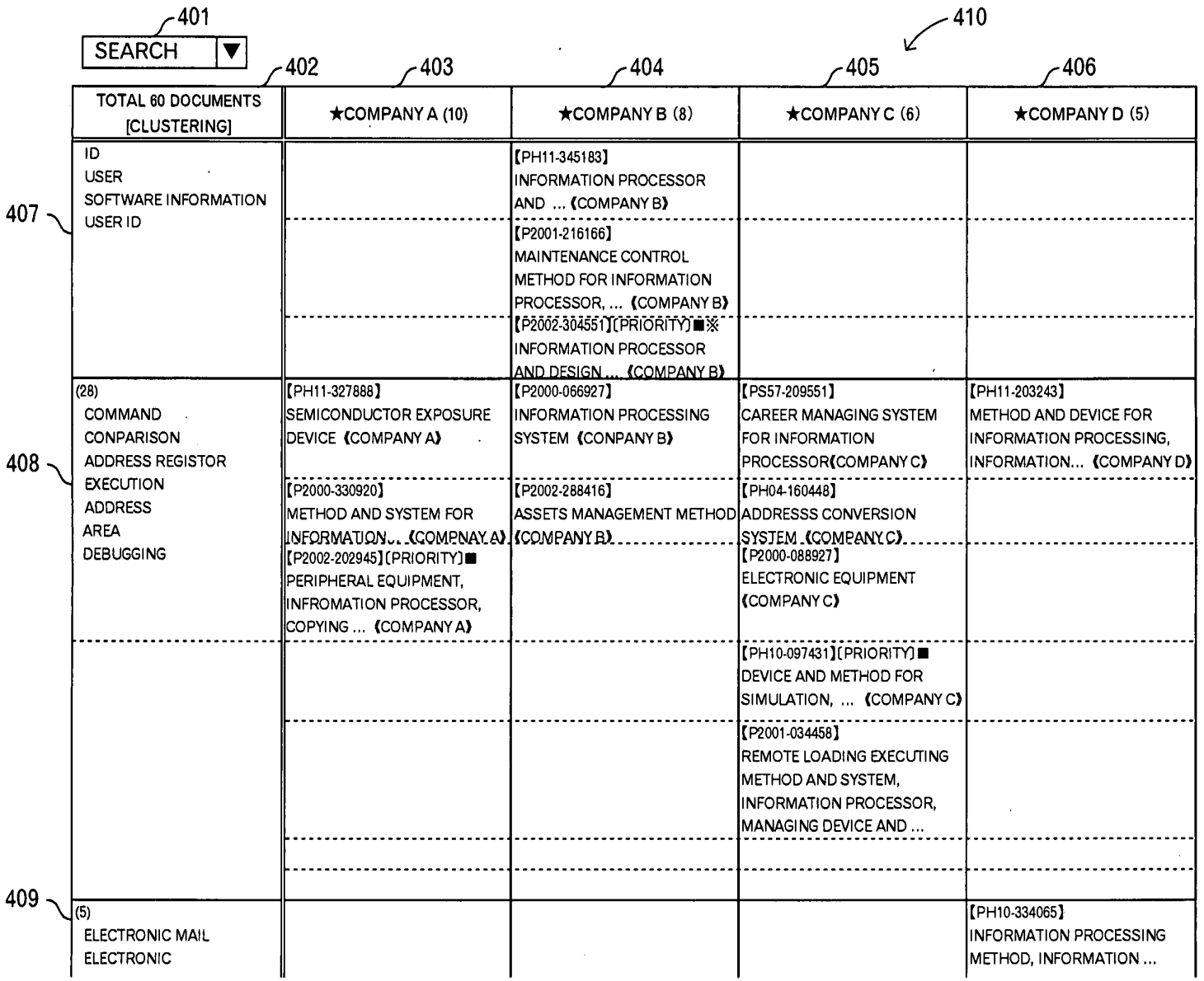
401
SEARCH
410
402
403
404
405
406
TOTAL 60 DOCUMENTS [CLUSTERING]
★COMPANY A (10)
★COMPANY B (8)
★COMPANY C (6)
★COMPANY D (5)
407
ID
USER
SOFTWARE INFORMATION
USER ID
【PH11-345183】 INFORMATION PROCESSOR AND ... 《COMPANY B》
【P2001-216166】 MAINTENANCE CONTROL METHOD FOR INFORMATION PROCESSOR, ... 《COMPANY B》
【P2002-304551】【PRIORITY】■※ INFORMATION PROCESSOR AND DESIGN ... 《COMPANY B》
408
(28)
COMMAND
CONPARISON
ADDRESS REGISTOR
EXECUTION
ADDRESS
AREA
DEBUGGING
【PH11-327888】 SEMICONDUCTOR EXPOSURE DEVICE 《COMPANY A》
【P2000-066927】 INFORMATION PROCESSING SYSTEM 《CONPANY B》
【PS57-209551】 CAREER MANAGING SYSTEM FOR INFORMATION PROCESSOR《COMPANY C》
【PH11-203243】 METHOD AND DEVICE FOR INFORMATION PROCESSING, INFORMATION... 《COMPANY D》
【P2000-330920】 METHOD AND SYSTEM FOR INFORMATION ... 《COMPNAY A》
【P2002-288416】 ASSETS MANAGEMENT METHOD 《COMPANY B》
【PH04-160448】 ADDRESSS CONVERSION SYSTEM 《COMPANY C》
【P2002-202945】【PRIORITY】■ PERIPHERAL EQUIPMENT, INFROMATION PROCESSOR, COPYING ... 《COMPANY A》
【P2000-088927】 ELECTRONIC EQUIPMENT 《COMPANY C》
【PH10-097431】【PRIORITY】■ DEVICE AND METHOD FOR SIMULATION, ... 《COMPANY C》
【P2001-034458】 REMOTE LOADING EXECUTING METHOD AND SYSTEM, INFORMATION PROCESSOR, MANAGING DEVICE AND ...
409
(5)
ELECTRONIC MAIL
ELECTRONIC
【PH10-334065】 INFORMATION PROCESSING METHOD, INFORMATION ...

FIG.7

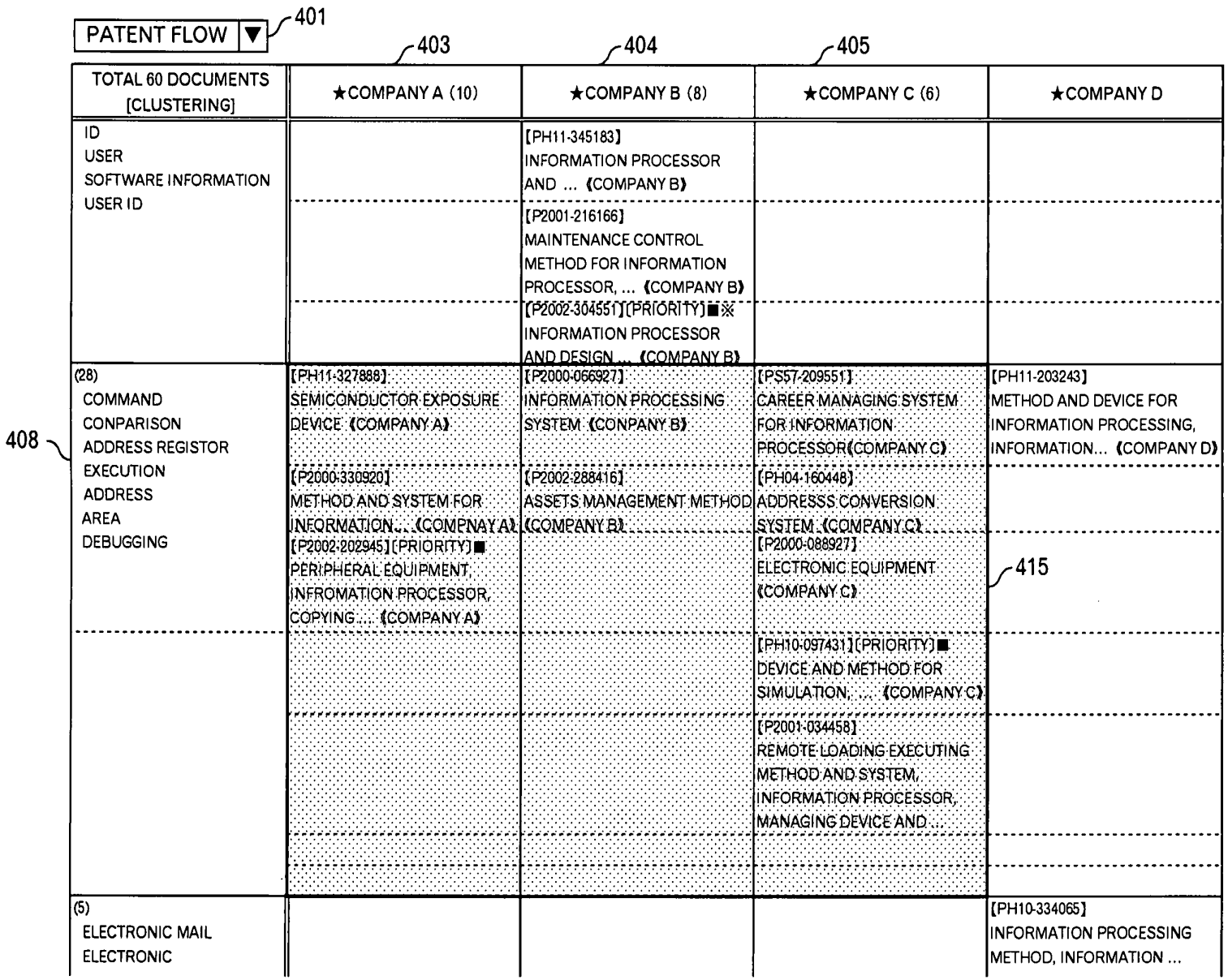
PATENT FLOW
401
403
404
405
TOTAL 60 DOCUMENTS [CLUSTERING]
★COMPANY A (10)
★COMPANY B (8)
★COMPANY C (6)
★COMPANY D
ID
USER
SOFTWARE INFORMATION
USER ID
【PH11-345183】 INFORMATION PROCESSOR AND ... 《COMPANY B》
【P2001-216166】 MAINTENANCE CONTROL METHOD FOR INFORMATION PROCESSOR, ... 《COMPANY B》
【P2002-304551】【PRIORITY】■※ INFORMATION PROCESSOR AND DESIGN ... 《COMPANY B》
408
(28)
COMMAND
CONPARISON
ADDRESS REGISTOR
EXECUTION
ADDRESS
AREA
DEBUGGING
【PH11-327888】 SEMICONDUCTOR EXPOSURE DEVICE 《COMPANY A》
【P2000-066927】 INFORMATION PROCESSING SYSTEM 《CONPANY B》
【PS57-209551】 CAREER MANAGING SYSTEM FOR INFORMATION PROCESSOR《COMPANY C》
【PH11-203243】 METHOD AND DEVICE FOR INFORMATION PROCESSING, INFORMATION... 《COMPANY D》
【P2000-330920】 METHOD AND SYSTEM FOR INFORMATION... 《COMPNAY A》
【P2002-288416】 ASSETS MANAGEMENT METHOD 《COMPANY B》
【PH04-160448】 ADDRESSS CONVERSION SYSTEM 《COMPANY C》
【P2002-202945】【PRIORITY】■ PERIPHERAL EQUIPMENT, INFROMATION PROCESSOR, COPYING... 《COMPANY A》
【P2000-088927】 ELECTRONIC EQUIPMENT 《COMPANY C》
415
【PH10-097431】【PRIORITY】■ DEVICE AND METHOD FOR SIMULATION, ... 《COMPANY C》
【P2001-034458】 REMOTE LOADING EXECUTING METHOD AND SYSTEM, INFORMATION PROCESSOR, MANAGING DEVICE AND ...
(5)
ELECTRONIC MAIL
ELECTRONIC
【PH10-334065】 INFORMATION PROCESSING METHOD, INFORMATION ...

FIG.9

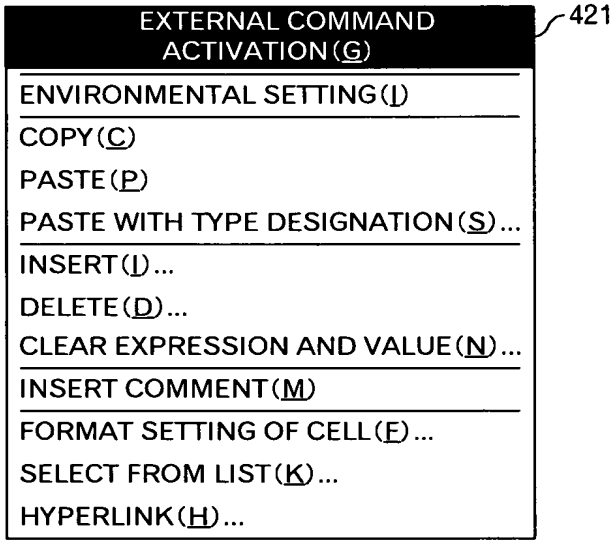
EXTERNAL COMMAND ACTIVATION(G)
421
ENVIRONMENTAL SETTING(I)
COPY(C)
PASTE(P)
PASTE WITH TYPE DESIGNATION(S)...
INSERT(I)...
DELETE(D)...
CLEAR EXPRESSION AND VALUE(N)...
INSERT COMMENT(M)
FORMAT SETTING OF CELL(F)...
SELECT FROM LIST(K)...
HYPERLINK(H)...

FIG.10

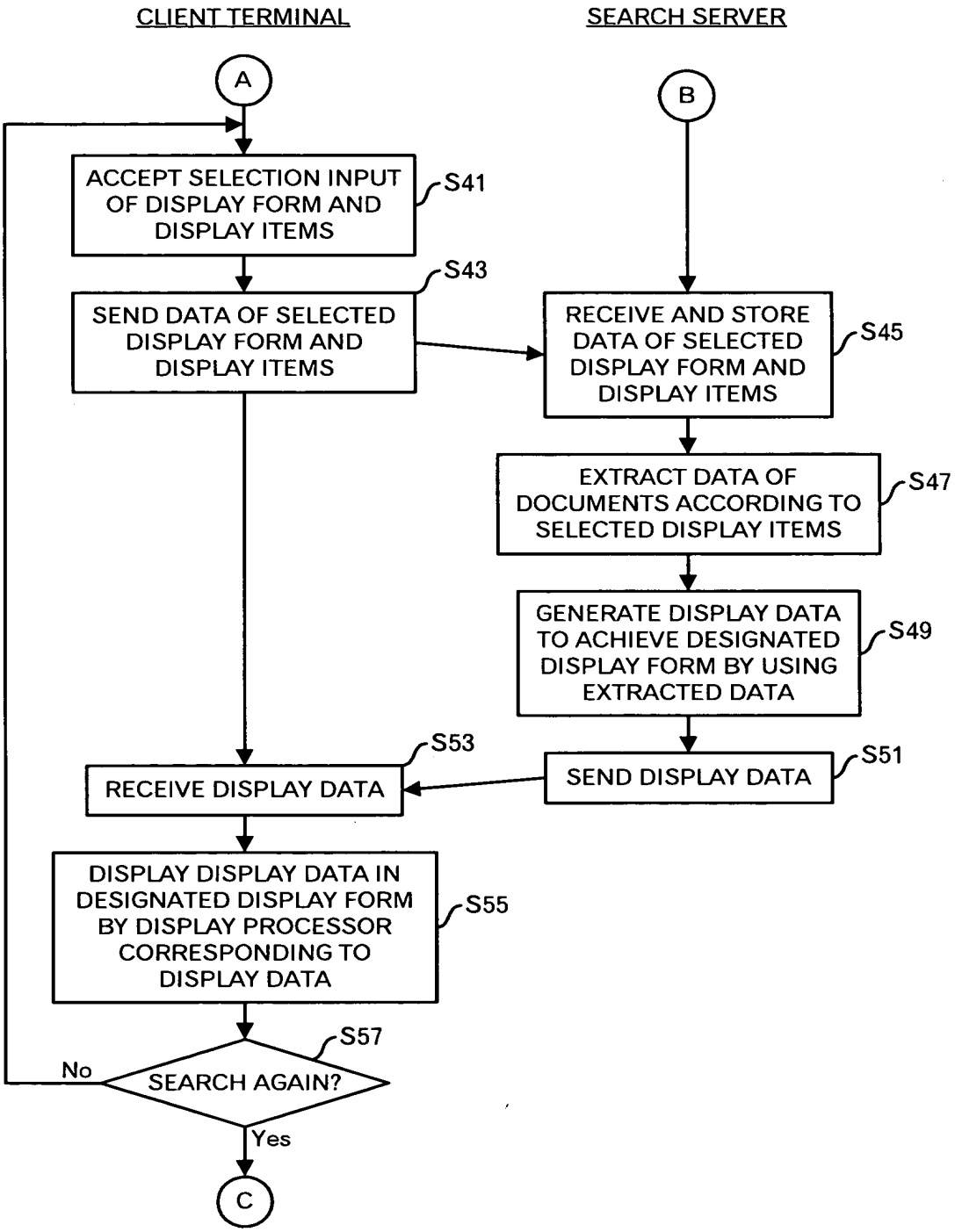
CLIENT TERMINAL
SEARCH SERVER
A
B
ACCEPT SELECTION INPUT OF DISPLAY FORM AND DISPLAY ITEMS
S41
SEND DATA OF SELECTED DISPLAY FORM AND DISPLAY ITEMS
S43
RECEIVE AND STORE DATA OF SELECTED DISPLAY FORM AND DISPLAY ITEMS
S45
EXTRACT DATA OF DOCUMENTS ACCORDING TO SELECTED DISPLAY ITEMS
S47
GENERATE DISPLAY DATA TO ACHIEVE DESIGNATED DISPLAY FORM BY USING EXTRACTED DATA
S49
SEND DISPLAY DATA
S51
RECEIVE DISPLAY DATA
S53
DISPLAY DISPLAY DATA IN DESIGNATED DISPLAY FORM BY DISPLAY PROCESSOR CORRESPONDING TO DISPLAY DATA
S55
SEARCH AGAIN?
S57
No
Yes
C

FIG.11

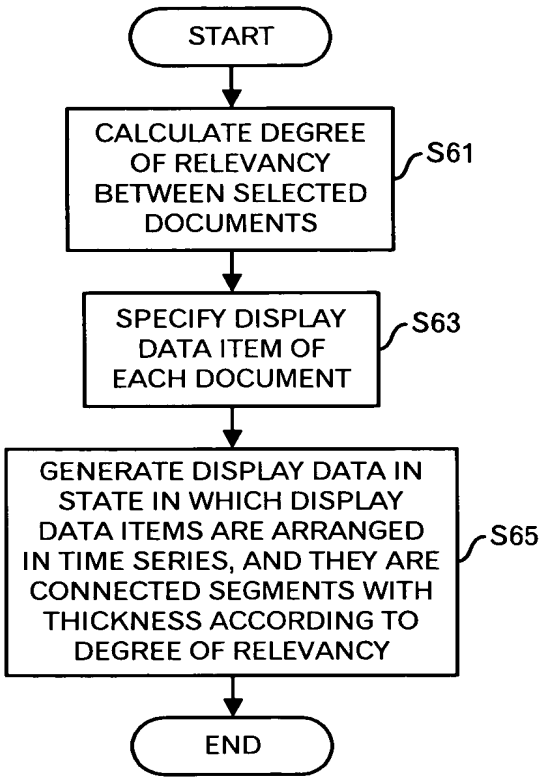
START
CALCULATE DEGREE OF RELEVANCY BETWEEN SELECTED DOCUMENTS
S61
SPECIFY DISPLAY DATA ITEM OF EACH DOCUMENT
S63
GENERATE DISPLAY DATA IN STATE IN WHICH DISPLAY DATA ITEMS ARE ARRANGED IN TIME SERIES, AND THEY ARE CONNECTED SEGMENTS WITH THICKNESS ACCORDING TO DEGREE OF RELEVANCY
S65
END

FIG.12

PUBLICATION NO.	1 PH11-327888	2 P2000-66927	3 PS57-209551	4 P2002-202945	5 P2002-288416	6 PH04-160448	7 P2000-88927	8 PH10-97431	9 P2001-34458	10 P2000-330920
1		—	0.026659	—	—	—	—	0.01437	0.027356	0.014073
2	—		—	—	0.022195	0.030203	—	0.017884	—	—
3	0.026659	—		—	—	—	0.010747	0.029673	—	—
4	—	—	—		—	—	—	—	—	0.069333
5	—	0.022195	—	—		0.057715	—	0.016643	0.02922	—
6	—	0.030203	—	—	0.057715		—	0.146054	—	—
7	—	—	0.010747	—	—	—		—	—	—
8	0.01437	0.017884	0.029673	—	0.016643	0.146054	—		—	—
9	0.027356	—	—	—	0.02922	—	—	—		0.066951
10	0.014073	—	—	0.069333	—	—	—	—	0.066951	

FIG.13

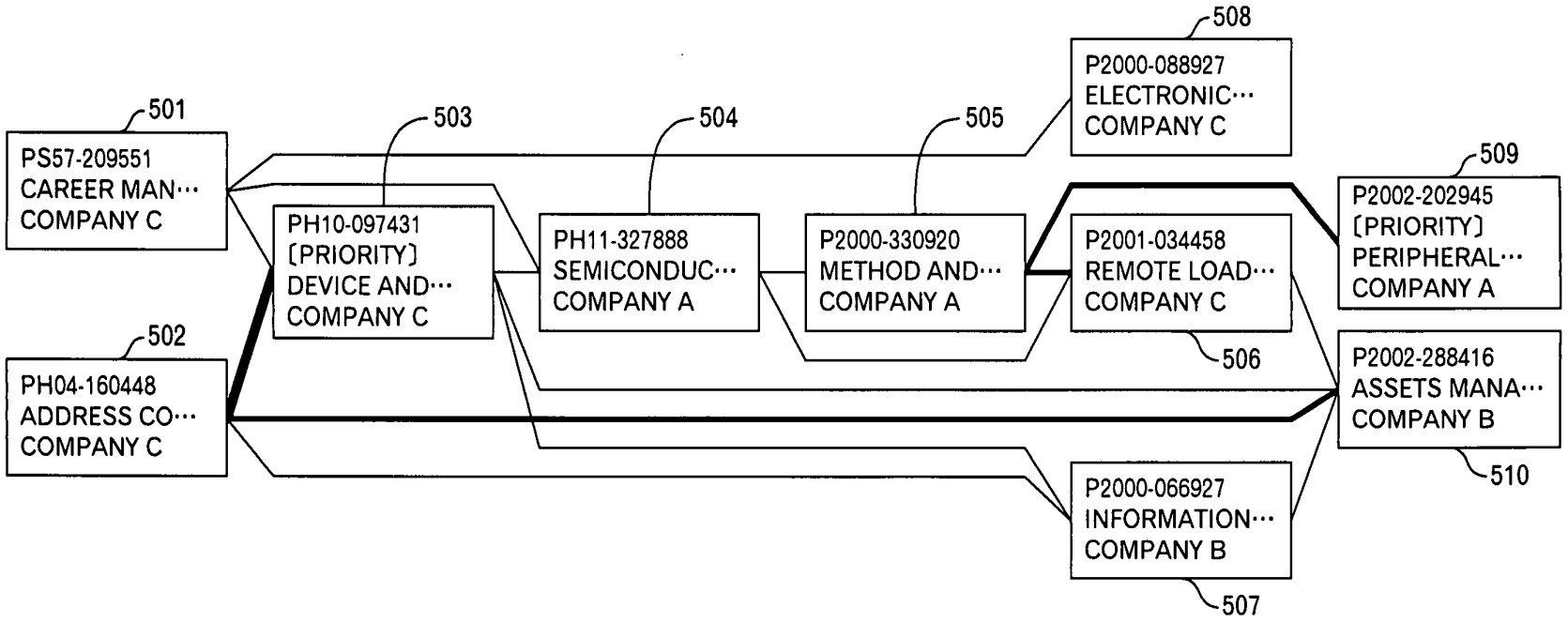
501
PS57-209551
CAREER MAN···
COMPANY C
502
PH04-160448
ADDRESS CO···
COMPANY C
503
PH10-097431
〔PRIORITY〕
DEVICE AND···
COMPANY C
504
PH11-327888
SEMICONDUC···
COMPANY A
505
P2000-330920
METHOD AND···
COMPANY A
508
P2000-088927
ELECTRONIC···
COMPANY C
P2001-034458
REMOTE LOAD···
COMPANY C
506
P2000-066927
INFORMATION···
COMPANY B
507
509
P2002-202945
〔PRIORITY〕
PERIPHERAL···
COMPANY A
P2002-288416
ASSETS MANA···
COMPANY B
510

FIG.14

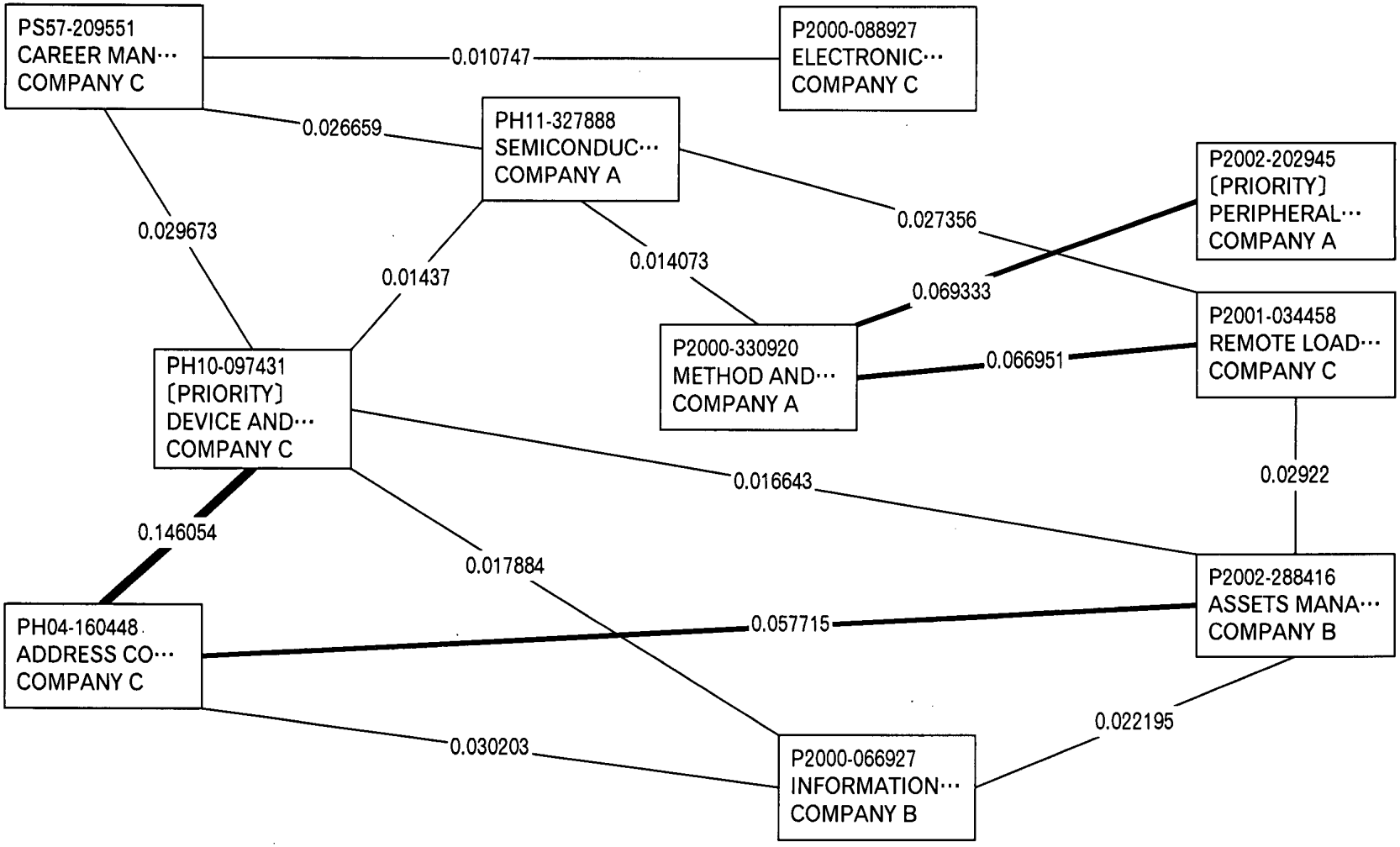
PS57-209551
CAREER MAN···
COMPANY C
P2000-088927
ELECTRONIC···
COMPANY C
PH11-327888
SEMICONDUC···
COMPANY A
P2002-202945
〔PRIORITY〕
PERIPHERAL···
COMPANY A
P2001-034458
REMOTE LOAD···
COMPANY C
P2000-330920
METHOD AND···
COMPANY A
PH10-097431
〔PRIORITY〕
DEVICE AND···
COMPANY C
P2002-288416
ASSETS MANA···
COMPANY B
PH04-160448
ADDRESS CO···
COMPANY C
P2000-066927
INFORMATION···
COMPANY B
0.010747
0.026659
0.029673
0.01437
0.014073
0.027356
0.069333
0.066951
0.016643
0.02922
0.146054
0.017884
0.057715
0.030203
0.022195

FIG.15

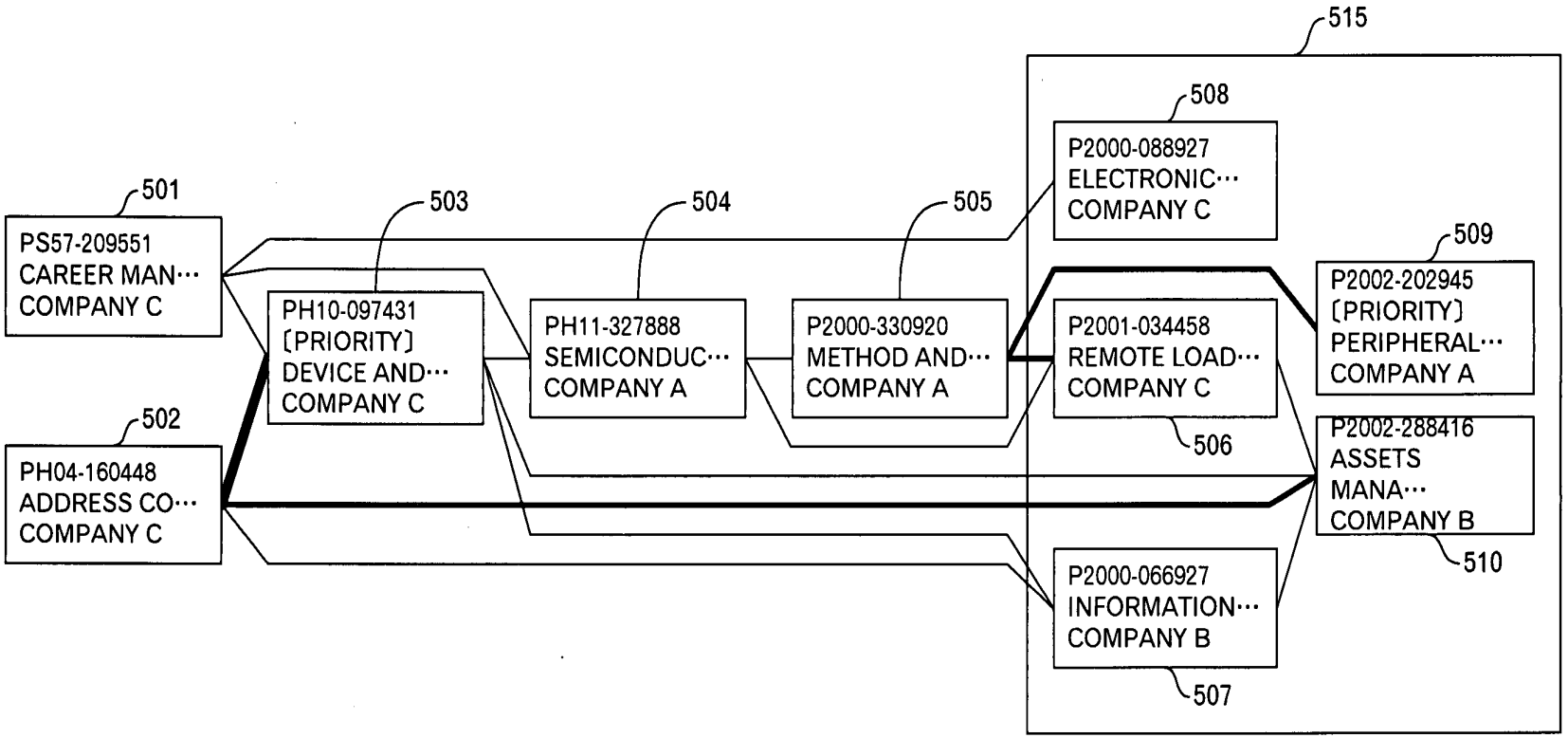
515
508
P2000-088927
ELECTRONIC···
COMPANY C
501
PS57-209551
CAREER MAN···
COMPANY C
503
PH10-097431
〔PRIORITY〕
DEVICE AND···
COMPANY C
504
PH11-327888
SEMICONDUC···
COMPANY A
505
P2000-330920
METHOD AND···
COMPANY A
509
P2002-202945
〔PRIORITY〕
PERIPHERAL···
COMPANY A
P2001-034458
REMOTE LOAD···
COMPANY C
506
502
PH04-160448
ADDRESS CO···
COMPANY C
P2002-288416
ASSETS
MANA···
COMPANY B
510
P2000-066927
INFORMATION···
COMPANY B
507

FIG.16

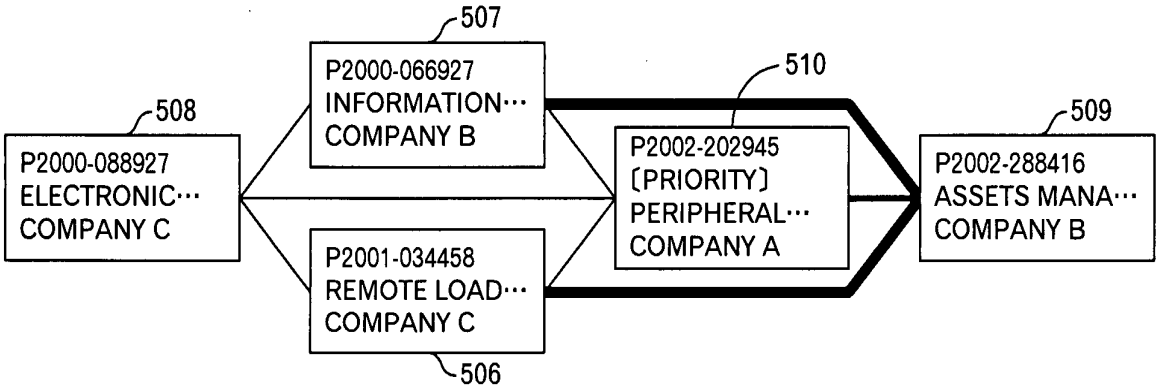
507
P2000-066927
INFORMATION…
COMPANY B
510
508
P2000-088927
ELECTRONIC…
COMPANY C
P2002-202945
〔PRIORITY〕
PERIPHERAL…
COMPANY A
509
P2002-288416
ASSETS MANA…
COMPANY B
P2001-034458
REMOTE LOAD…
COMPANY C
506

FIG.17

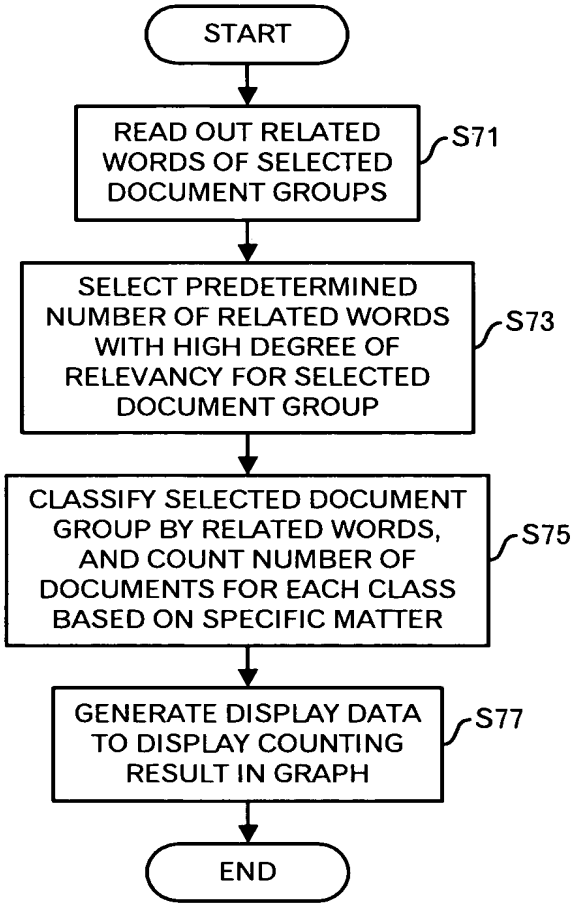
START
READ OUT RELATED WORDS OF SELECTED DOCUMENT GROUPS
S71
SELECT PREDETERMINED NUMBER OF RELATED WORDS WITH HIGH DEGREE OF RELEVANCY FOR SELECTED DOCUMENT GROUP
S73
CLASSIFY SELECTED DOCUMENT GROUP BY RELATED WORDS, AND COUNT NUMBER OF DOCUMENTS FOR EACH CLASS BASED ON SPECIFIC MATTER
S75
GENERATE DISPLAY DATA TO DISPLAY COUNTING RESULT IN GRAPH
S77
END

FIG.18

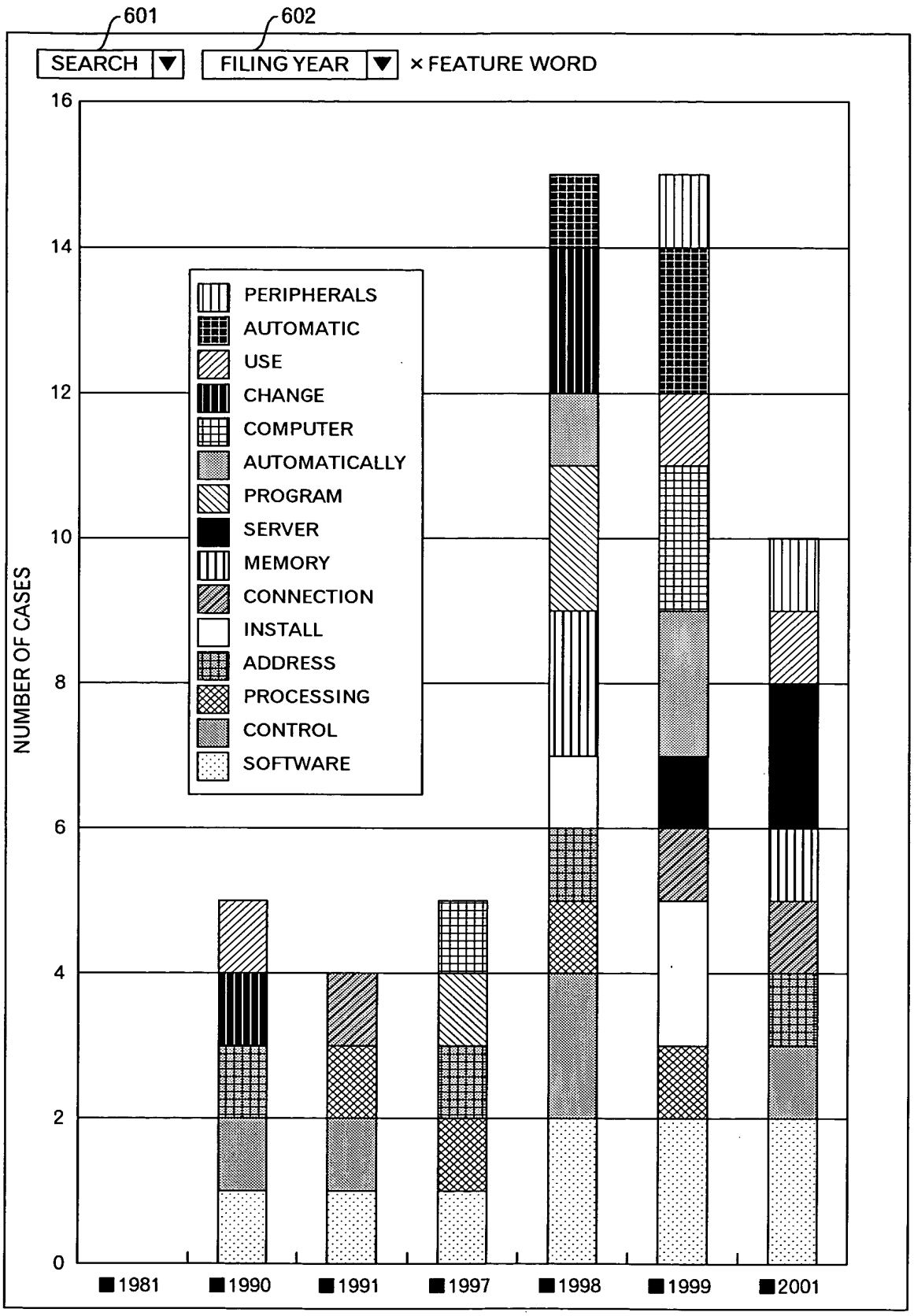
601
602
SEARCH
FILING YEAR
× FEATURE WORD
NUMBER OF CASES
16
14
12
10
8
6
4
2
0
PERIPHERALS
AUTOMATIC
USE
CHANGE
COMPUTER
AUTOMATICALLY
PROGRAM
SERVER
MEMORY
CONNECTION
INSTALL
ADDRESS
PROCESSING
CONTROL
SOFTWARE
1981
1990
1991
1997
1998
1999
2001

FIG.19

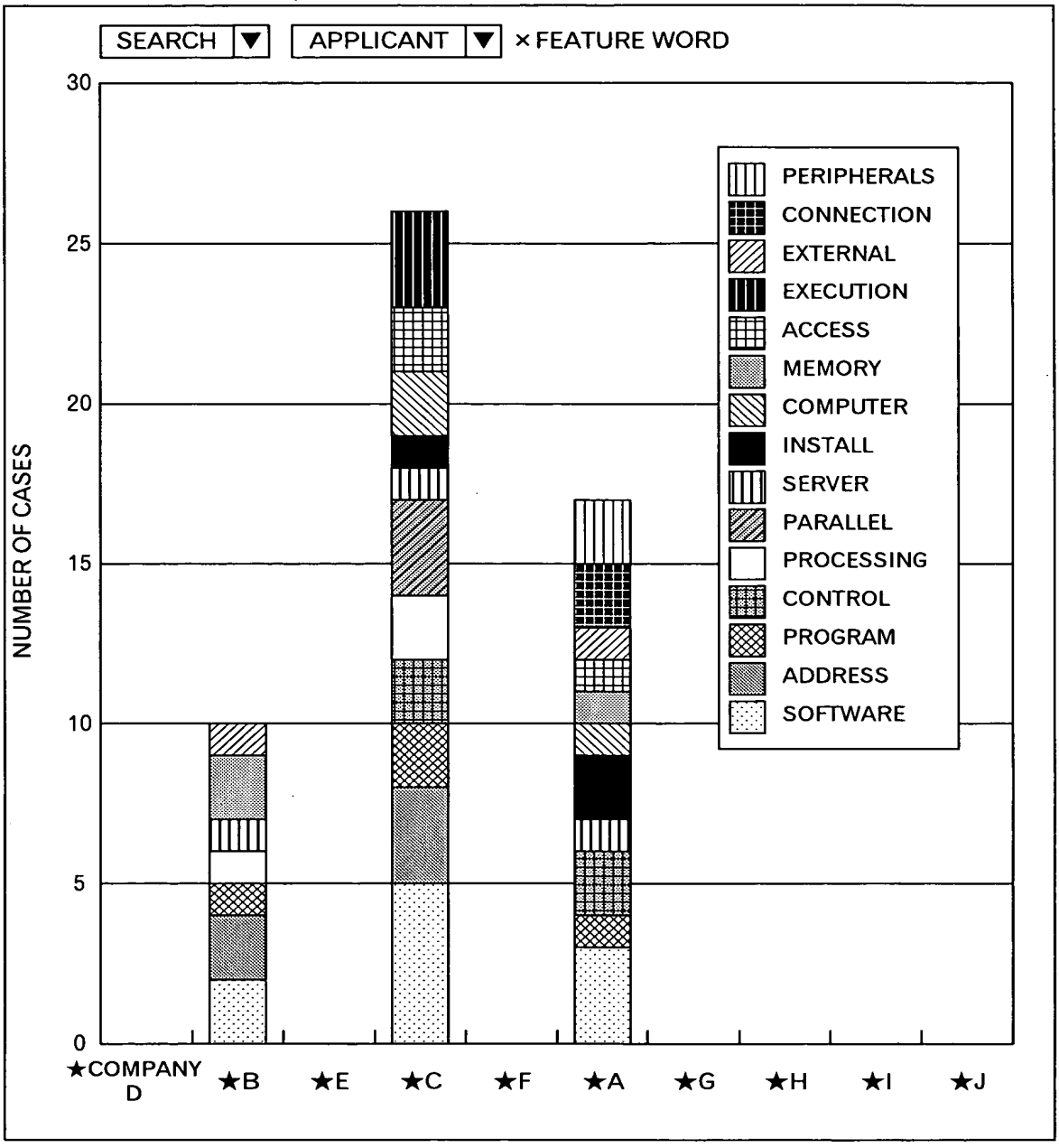
SEARCH
APPLICANT
× FEATURE WORD
NUMBER OF CASES
30
25
20
15
10
5
0
PERIPHERALS
CONNECTION
EXTERNAL
EXECUTION
ACCESS
MEMORY
COMPUTER
INSTALL
SERVER
PARALLEL
PROCESSING
CONTROL
PROGRAM
ADDRESS
SOFTWARE
★COMPANY D
★B
★E
★C
★F
★A
★G
★H
★I
★J

FIG.20

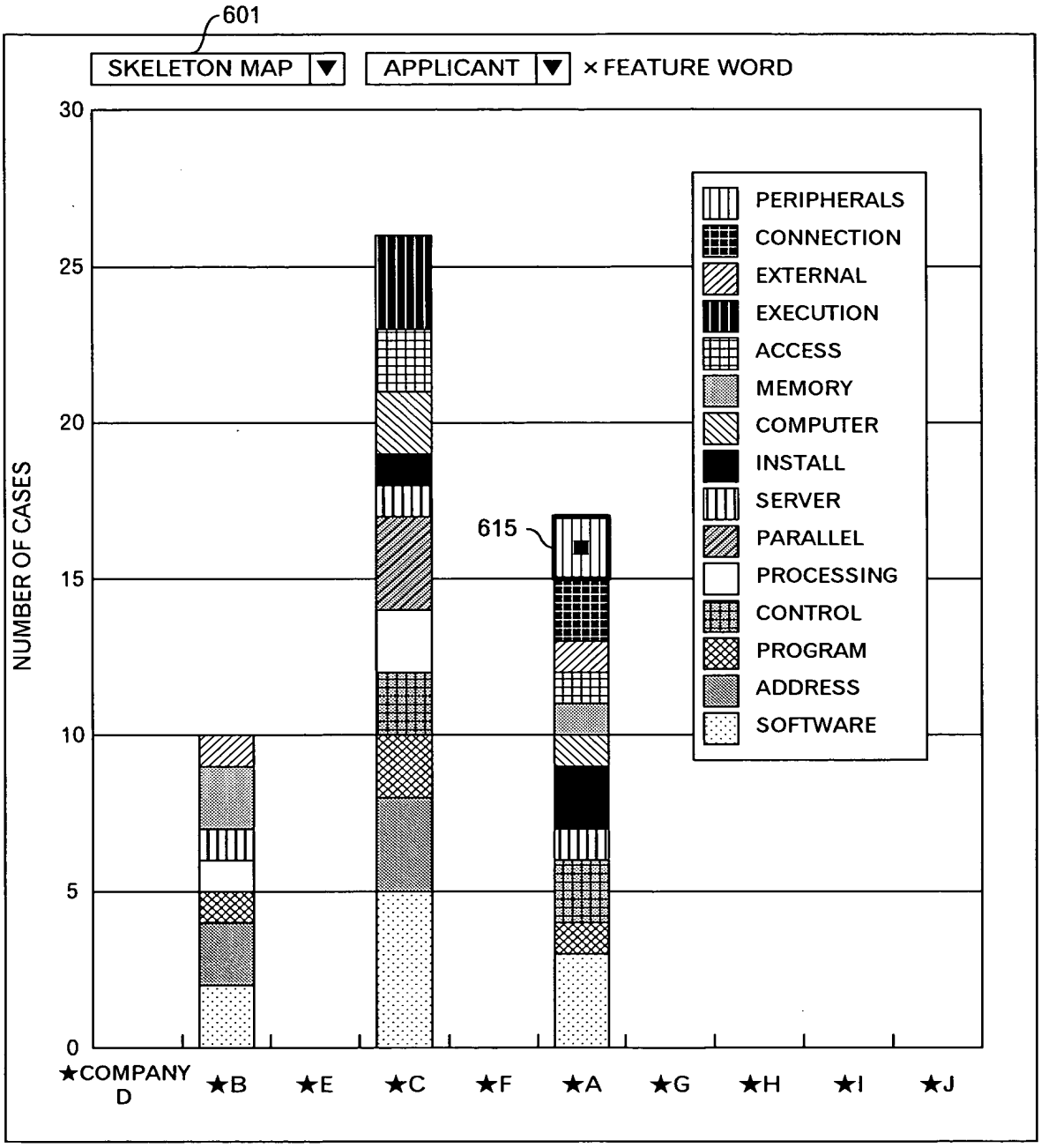
601
SKELETON MAP
APPLICANT
× FEATURE WORD
NUMBER OF CASES
30
25
20
15
10
5
0
615
PERIPHERALS
CONNECTION
EXTERNAL
EXECUTION
ACCESS
MEMORY
COMPUTER
INSTALL
SERVER
PARALLEL
PROCESSING
CONTROL
PROGRAM
ADDRESS
SOFTWARE
★COMPANY D
★B
★E
★C
★F
★A
★G
★H
★I
★J

FIG.21

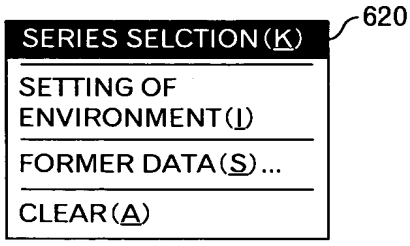
SERIES SELCTION(K)
620
SETTING OF ENVIRONMENT(I)
FORMER DATA(S)...
CLEAR(A)

FIG.22

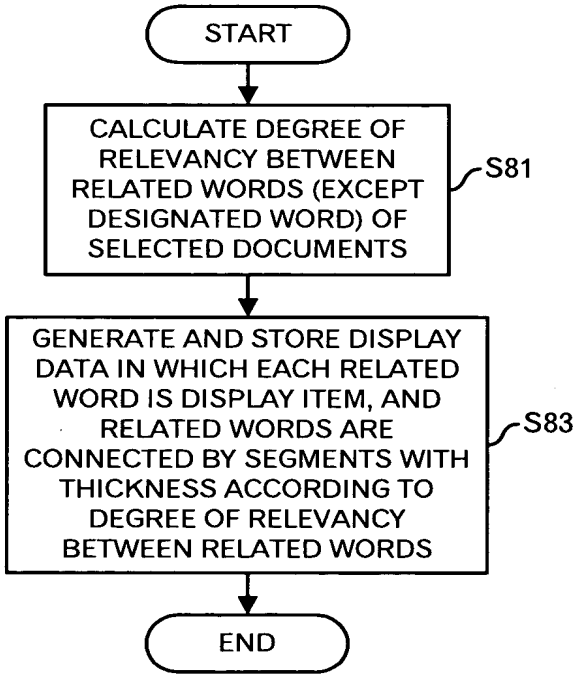
START
CALCULATE DEGREE OF RELEVANCY BETWEEN RELATED WORDS (EXCEPT DESIGNATED WORD) OF SELECTED DOCUMENTS
S81
GENERATE AND STORE DISPLAY DATA IN WHICH EACH RELATED WORD IS DISPLAY ITEM, AND RELATED WORDS ARE CONNECTED BY SEGMENTS WITH THICKNESS ACCORDING TO DEGREE OF RELEVANCY BETWEEN RELATED WORDS
S83
END

FIG.23

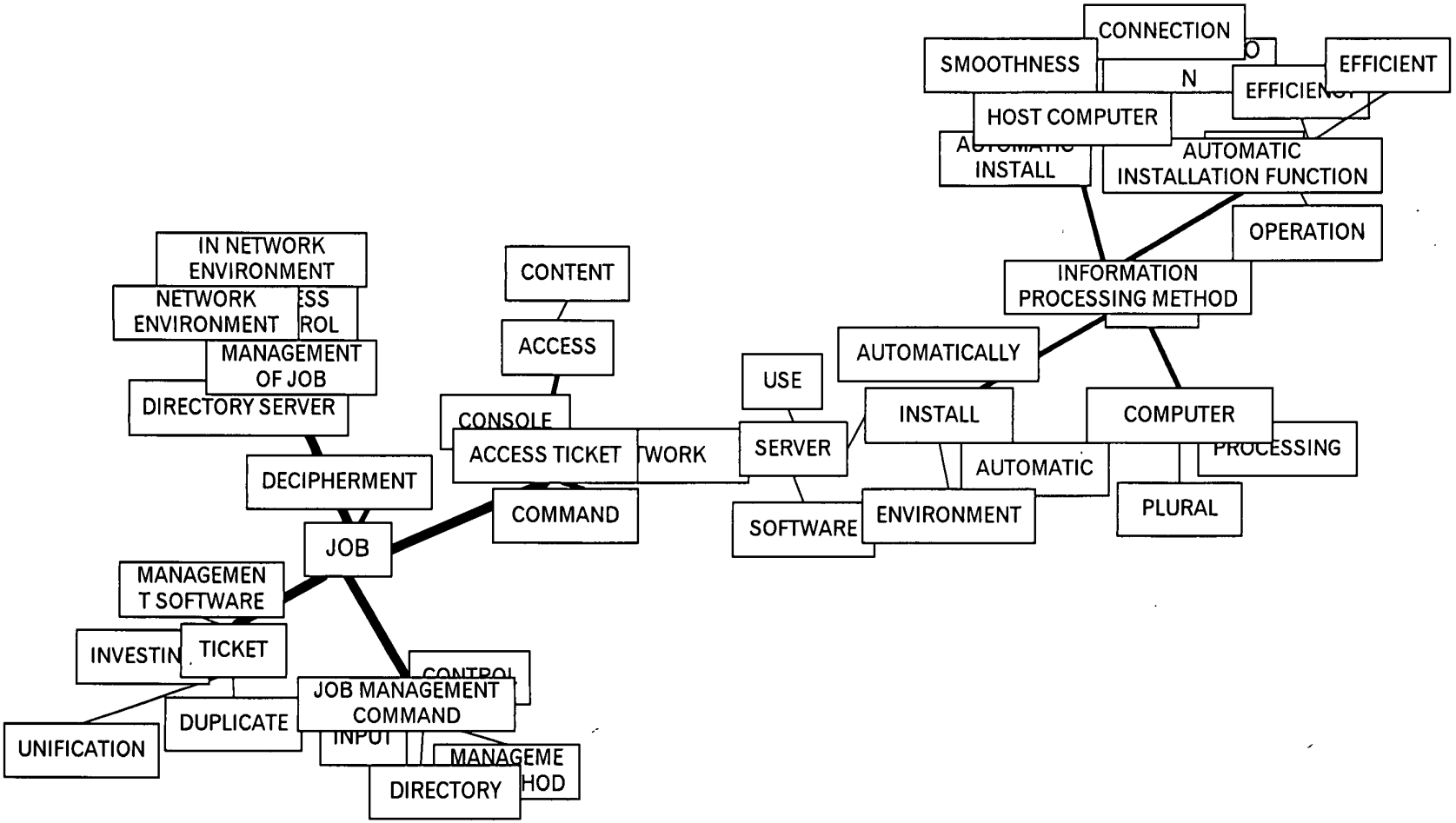
CONNECTION
SMOOTHNESS
EFFICIENT
HOST COMPUTER
AUTOMATIC INSTALL
AUTOMATIC INSTALLATION FUNCTION
OPERATION
INFORMATION PROCESSING METHOD
AUTOMATICALLY
USE
INSTALL
COMPUTER
PROCESSING
AUTOMATIC
PLURAL
SERVER
SOFTWARE
ENVIRONMENT
CONTENT
ACCESS
CONSOLE
ACCESS TICKET
IN NETWORK ENVIRONMENT
NETWORK ENVIRONMENT
MANAGEMENT OF JOB
DIRECTORY SERVER
DECIPHERMENT
COMMAND
JOB
MANAGEMEN T SOFTWARE
INVESTIN
TICKET
DUPLICATE
UNIFICATION
JOB MANAGEMENT COMMAND
DIRECTORY

FIG.24

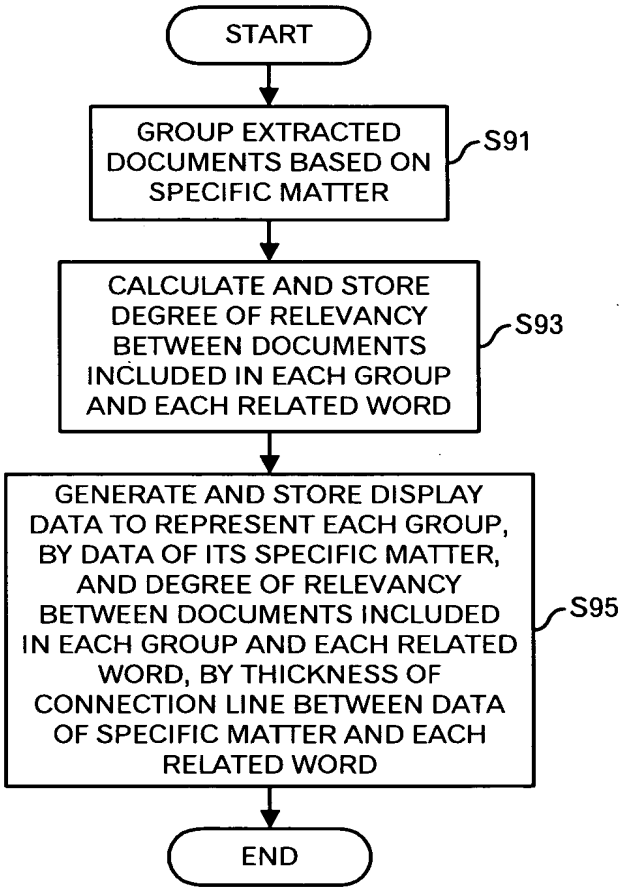
START
GROUP EXTRACTED DOCUMENTS BASED ON SPECIFIC MATTER
S91
CALCULATE AND STORE DEGREE OF RELEVANCY BETWEEN DOCUMENTS INCLUDED IN EACH GROUP AND EACH RELATED WORD
S93
GENERATE AND STORE DISPLAY DATA TO REPRESENT EACH GROUP, BY DATA OF ITS SPECIFIC MATTER, AND DEGREE OF RELEVANCY BETWEEN DOCUMENTS INCLUDED IN EACH GROUP AND EACH RELATED WORD, BY THICKNESS OF CONNECTION LINE BETWEEN DATA OF SPECIFIC MATTER AND EACH RELATED WORD
S95
END

FIG.25

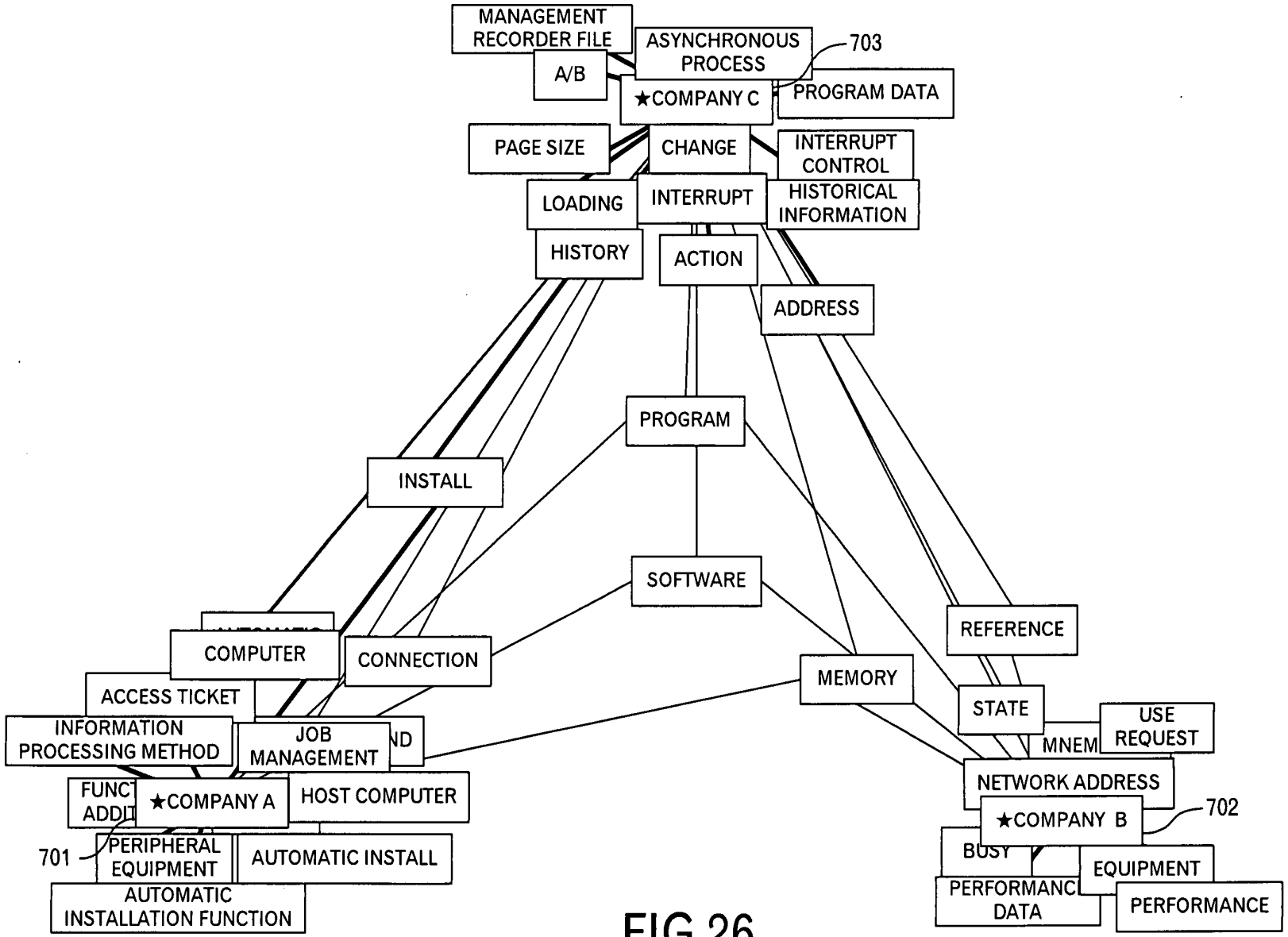
MANAGEMENT RECORDER FILE
ASYNCHRONOUS PROCESS
703
A/B
★COMPANY C
PROGRAM DATA
PAGE SIZE
CHANGE
INTERRUPT CONTROL
LOADING
INTERRUPT
HISTORICAL INFORMATION
HISTORY
ACTION
ADDRESS
PROGRAM
INSTALL
SOFTWARE
REFERENCE
COMPUTER
CONNECTION
MEMORY
ACCESS TICKET
STATE
USE REQUEST
INFORMATION PROCESSING METHOD
JOB MANAGEMENT
MNEM
NETWORK ADDRESS
FUNCT
ADDI
★COMPANY A
HOST COMPUTER
★COMPANY B
702
701
PERIPHERAL EQUIPMENT
AUTOMATIC INSTALL
BUSY
EQUIPMENT
AUTOMATIC INSTALLATION FUNCTION
PERFORMANC DATA
PERFORMANCE

FIG.26